

ABSTRACT

5 A pulse signal generator comprising a magnetic  
element able (1) to cause a large Barkhausen jump; a  
detection member (2) for detecting a magnetic change in the  
magnetic element to generate a pulse signal; and a pair of  
magnetic field sources (3, 4, 6, and 7) provided in  
parallel to each other on both sides of the magnetic  
element such that their poles (3A, 4A) are opposed to each  
10 other so that when an object (5A) advances from one of  
opposite poles to the other of the magnetic field sources,  
a magnetic field applied to the magnetic element changes,  
causing a large Barkhausen jump in the magnetic element,  
thus causing the detection member to generate a pulse  
15 signal.

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